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Case Study – A Call to Action: Migrating the Reveille from CONTENTdm to Digital Commons

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Case Study – A Call to Action:

Migrating the *Reveille* from CONTENTdm to Digital Commons

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Abstract

Forsyth Digital Collections presents their content on more than one digital collections platform. Since the acquisition of Digital Commons and the launch of the FHSU Scholars Repository in January 2016, there has been an institutional effort to determine which platform is best suited to displaying existing content. Beginning in 2009, the FHSU Reveille Yearbooks collection had been hosted in CONTENTdm. This collection suffered from issues relating to access and user experience. In 2014 additional effort was put into improving the collection though those efforts did not achieve the desired result. In the spring of 2017 it was determined that the Reveille Yearbooks were a good candidate for moving from CONTENTdm to Digital Commons. The purpose of this case study is to examine the thought process in determining why this collection was unsuited to CONTENTdm, why Digital Commons was the better platform, what choices we made in presenting this collection in Digital Commons, the practical difference between the two platforms, and a retrospective comparison of usage between the two platforms.

Keywords: CONTENTdm, Digital Commons, Institutional Repositories, Collection performance, Digital Collections, Yearbooks, Academic libraries

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Case Study – A Call to Action:

Migrating the Reveille from CONTENTdm to Digital Commons

Forsyth Library at Fort Hays State University in Hays, Kansas began maintaining digital collections in 2008. Since 2016, the library has presented digital collections in both CONTENTdm and Digital Commons. As technology advances and the collections age, some collections no longer meet industry standards and user expectations in their current form. The *FHSU Reveille Yearbook* digital collection was identified as one collection needing an update. As part of that update, this collection was moved from CONTENTdm to Digital Commons. This case study looks at the decision making process prior to moving this collection, considerations in planning the new collection in Digital Commons, and the move from CONTENTdm to Digital Commons. The purpose of this study is to add to the body of knowledge relating to analysis of platform appropriateness for digital collections at academic libraries.

Literature Review

There is little available in the way of formal studies relating specifically to moving mature digital collections from one platform to another. Perrin (2013) provided a synopsis of the decision to move Texas Tech University's digital collections from CONTENTdm to DSpace. Perrin identified reasons relating to visibility of collections in search engines and preservation concerns as drivers for the decision. Because of the lack of published research relating to this topic, information gathering for this case study focused on discussions with librarians actively engaged in management of digital collections. Detailed studies relating to platform performance for specific kinds of digital collections represent an area where librarian scholarship is needed to inform best practices.

Background

The *Reveille* was the official Fort Hays State University yearbook. It was published yearly from 1914 to 2003 with the exception of a two year "Victory Issue" for the years 1918 and 1919 published in the spring of 1919. Individual issues of the *Reveille* generate a high level of interest among alumni and the community at large. Because they were produced in limited runs, certain years are difficult to obtain. The *Reveille* is not part of the library's circulating collection, and physical copies are only available for viewing by appointment with the University Archives. In 2009, Forsyth Library determined that the *Reveille* series would be a good candidate for digitization. The purpose was to make these yearbooks available online in their entirety as a way to increase access to this collection and to protect fragile institutional history from the ravages of physical use.

Reveille 1.0

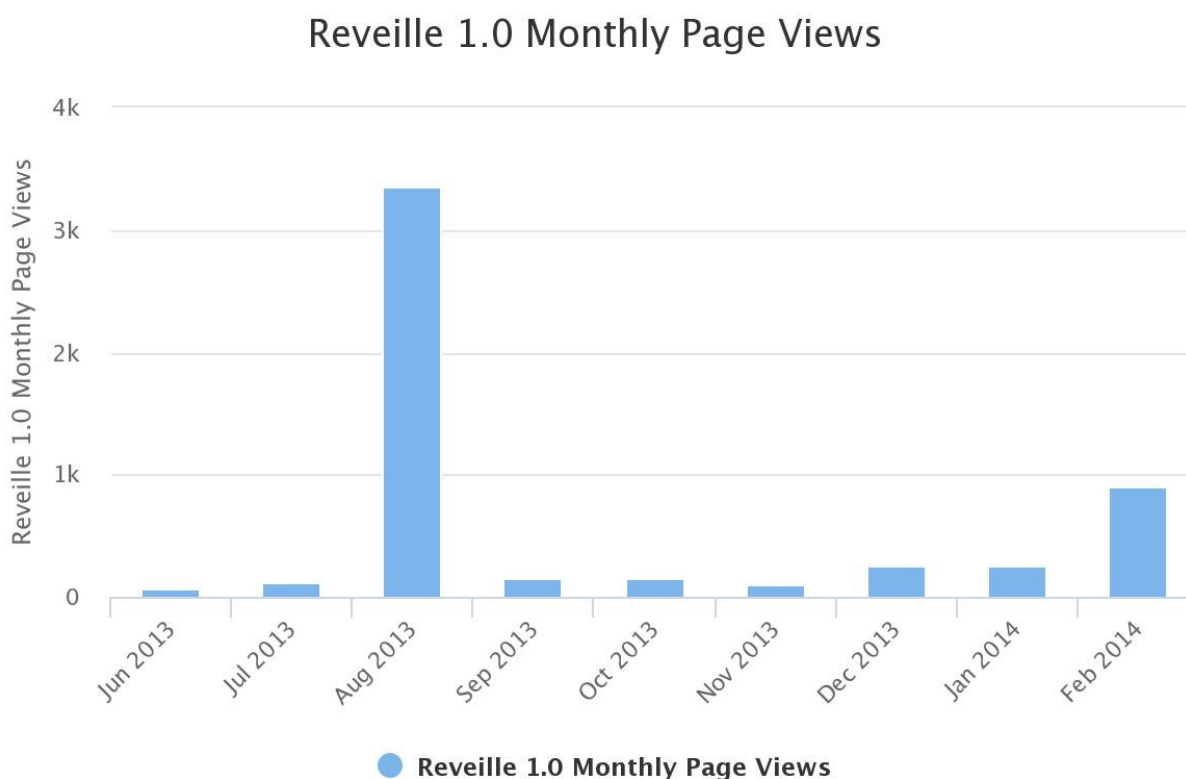
Original digitization efforts focused on photographing the *Reveille* using a camera with a book cradle. Digital images were combined into .pdf files. The .pdfs were then uploaded as single objects with the accompanying metadata to a collection in CONTENTdm. Due to

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

technology constraints at the time, the original files were not text searchable. Some effort was made to transcribe name data into the metadata, but the transcription project was not completed. Additionally, photographing the yearbooks rather than scanning them produced image quality problems. Glossy pages suffered from glare issues. Post-production image editing was not done due to available resources.

Reveille 1.0 Usage. The CONTENTdm system is limited in what usage data it can report. The platform is able to integrate Google Analytics to collect usage data; however, access to this data was lost during personnel changes. CONTENTdm tracks page views as its usage metric. Any time a page is loaded by a browser, the system logs it as a page view (OCLC, 2017). CONTENTdm provides only 60 months of page view data but no attempt was made to preserve historical usage data prior to June 2017. Usage data for this first iteration of the collection is restricted to a period from June 2013, the earliest available date at the time usage data preservation activities began, to February 2014 when the *Reveille 2.0* was launched. For the *Reveille 1.0*, total page views equaled 5,356 for the available nine-month period.

Chart 1: *Reveille 1.0 Monthly Page Views*



Including all months, the collection was receiving on average 595 views per month. August 2013 is an obvious outlier in the data, which skews the average views upward. If one omits this month, the average becomes more representative with an average of 250 views per month. This further breaks down to an average of three views per item in the collection each month. Actual item-level page view data including all months shows that the most viewed item

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

over this period received a total of 169 views. The most viewed item in any given month received 24 views. The majority of the items in this collection received no views over this period. See *Appendix A* for full usage data from this period.

Reveille 2.0

Performance issues with the original *Reveille* collection indicated a need for a different approach to the collection. CONTENTdm has difficulties presenting large .pdf files, and many of the *Reveille* issues were well over 100mb per file. Additionally, by 2014 optical character recognition (OCR) technology for .pdf files had improved. The decision was made to re-image the *Reveille* in its entirety, and to use OCR software to create a text-searchable collection. In order to correct image quality issues, the collection was scanned instead of photographed. The archives housed multiple copies of most issues of the *Reveille* so when appropriate, individual issues were sacrificed and taken apart to be scanned. The earliest issues were post bound so they could be taken apart and reassembled by archival staff during digitization. Rare issues that had only one or two copies available were scanned while still bound. The resulting images were of a much higher quality than the originals. Individual master .tiff files were converted to .jpeg and then assembled to create .pdf versions of each issue. The OCR software was able to recognize most text within the yearbooks. For pages that had word art, the OCR would sometimes skew the page to read the text. This presented technical issues for digitization staff.

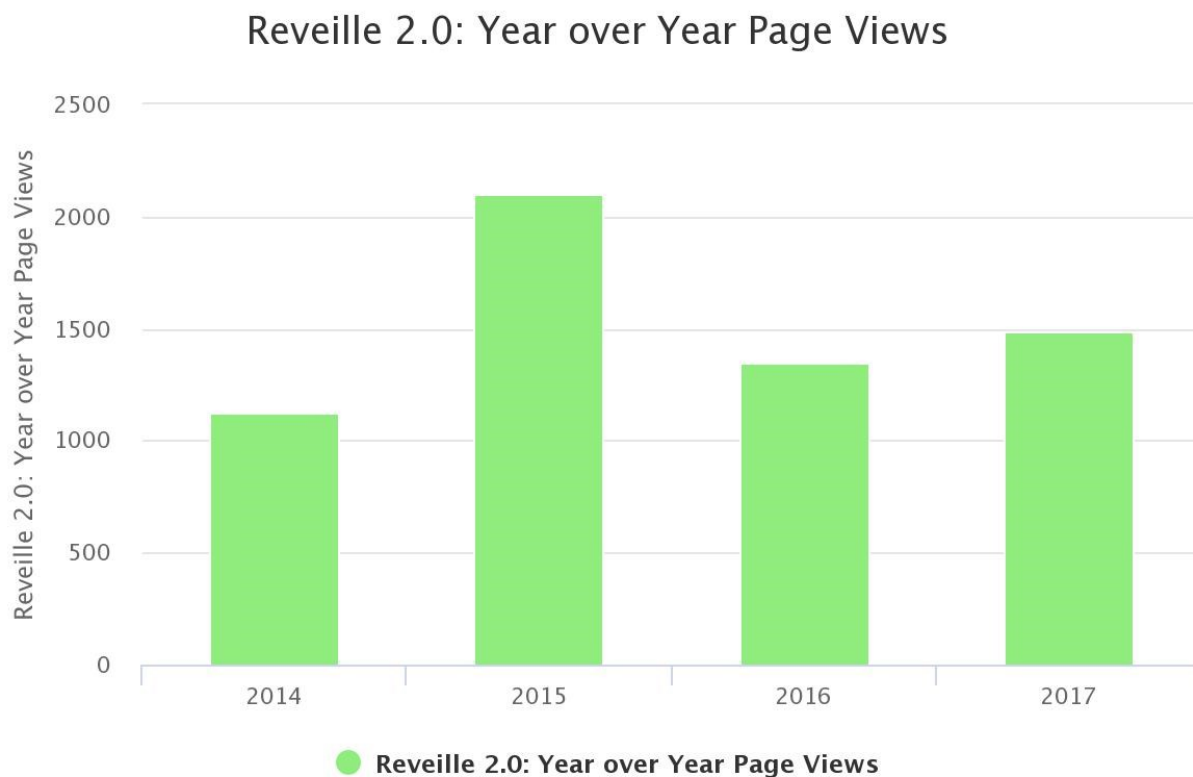
The second iteration of the digital *Reveille* produced much larger file sizes than the original. Files sizes routinely ran above 300mb per file with many surpassing 500mb. In the case of the largest issues, files sizes were over 1gb. CONTENTdm had difficulty presenting the original files at their smaller size so larger files tended to exacerbate the problem. To address this, the new higher quality .pdfs were broken down into individual pages and then organized in CONTENTdm as compound objects. This allowed CONTENTdm to load individual issues of the *Reveille* but load times were long. Metadata within the compound objects was limited and never fully completed. Though the individual files were text searchable from within the .pdf itself, the OCR was never integrated into the CONTENTdm interface. Text searching was only available after a user downloaded the file. While this version of the *Reveille* collection addressed image quality issues, it did not answer the desire to make the collection more accessible through better load times and text-searching.

Reveille 2.0 – Usage. Page view data for the *Reveille 2.0* exists from March 2014 when work on the new collection began, through June 2017. The *Reveille 3.0* launched in July 2017. There are a total of 40 months of data for *Reveille 2.0*. Because the new version of the collection featured compound objects rather than individual objects, page view data was generated for individual pages within the compound object as well as for the parent object. Metadata for the individual pages was incomplete and so it is difficult to tie page view data for individual pages to their parent object. As such, page view data for individual pages was omitted for this analysis. Comparisons between the two versions of the *Reveille* collection are made between page view data of individual items in *1.0* versus page view data for parent objects in *2.0*. Because users were not able to access pages within the compound object without it first registering a page view for the parent object, these two metrics are equivalent for purposes of comparison.

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

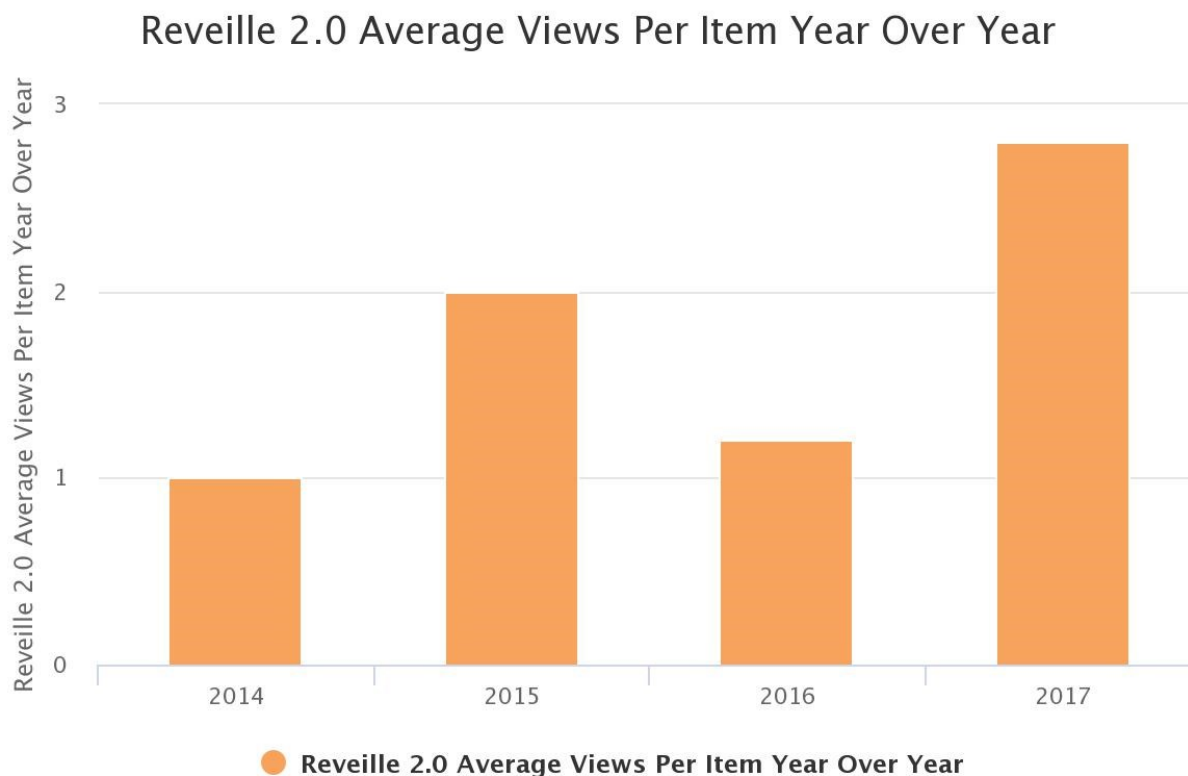
In 2014 page view numbers were down from the previous period likely due to ongoing work within the collection. In 2015 those numbers ticked up to 2,100 views over the course of the 12 month period but then sank again in 2016 to 1,350. Usage was up slightly in 2017 to 1,485 prior to the move to Digital Commons. Overall, page views never recovered to their pre-update levels.

Chart 2: *Reveille 2.0 Year over Year Page Views March 2014-June 2017*



In order to compare usage between the two versions of the *Reveille* collection, it is helpful to compare average views per item. From 2014 through 2017, the average view per item in the collection ranged between 1 and 2.8 views per item per month. This was down from the average view per item of the *Reveille 1.0*. The *Reveille 1.0* received an average of seven (7) views per item, or three (3) views per item if one omits the August 2013 data. The average views per item per month for *Reveille 2.0* rose slightly in 2017, but this is due mainly to increased usage overall. In May 2017, platform level search settings were optimized resulting in increased page views across collections. After looking at the data, it was determined that changes made between the *Reveille 1.0* and the *Reveille 2.0* collections actually resulted in a drop in usage. Complete *Reveille 2.0* page view data is presented in *Appendix B*.

Chart 3: *Reveille 2.0 Average Page View per Item – Year Over Year*



Decision to Move the Collection

Neither iteration of the *Reveille* had been particularly successful in generating traffic. Both versions suffered from long load times and a lack of in-text search capabilities. Display options for the .pdf files in CONTENTdm did not meet expectations and there was a general feeling within the library that this collection needed help. In January 2016, Forsyth Library launched the FHSU Scholars Repository on Digital Commons. Digital Commons was designed with large .pdf files in mind so it seemed better positioned to handle the content of the *Reveille* collection. In April 2017, Forsyth Library hired a new Digital Curation Librarian and an update of the *Reveille* was placed high on the priority list. After an assessment of the *Reveille 2.0*, it was determined that an extensive metadata update of the collection was needed in order to improve search and discovery of the collection. This solution was seriously considered during the planning phase. The alternative was to move the collection to Digital Commons. After discussions with library leadership, it was decided that a move to Digital Commons would take less time than a metadata update. Additionally, moving this collection could serve as an experiment to determine what other existing collections were candidates for a move to the new platform.

Format of the *Reveille* 3.0

The print edition of the *Reveille* is a collection of 89 issues with attractive covers. From the beginning, there was a desire to present the yearbooks in a way that highlighted the artwork. To that end, it was decided to develop the collection as a book gallery in Digital Commons. In order to represent the structure of the physical collection, the *Reveille* was organized under the *Archives Online* within the Scholars Repository. This collection was designed to be a browsing collection with emphasis placed on the ability to do in-text searching. Library leadership wanted to preserve the feeling of flipping through a yearbook and reminiscing on what was discovered. Yearbook collections from other institutions using Digital Commons were examined and a plan was developed to present the yearbooks as a gallery of cover thumbnails with the year displayed below each cover. In order to facilitate browsing, an option to sort by decade was added. This was achieved by collecting works from specific decades to date-limited galleries, and then displaying links to those galleries at the top of the *Reveille* 3.0 home page.

File Considerations

To prepare for the move, preservation files were located. The original files had an inconsistent naming structure. The preservation files along with their associated access versions were renamed to address this. Where possible, file sizes of the .pdfs were reduced to under 100mb per issue. In a handful of cases this was not possible owing to the size of the original document. For the .pdfs that could not be reduced to under 100mb, cover images were generated. Each issue had the OCR re-generated through Adobe Acrobat Pro DC. Two issues needed to be re-imaged. The first was omitted from the original 2014 re-imaging efforts and was not of the same quality as the others. A second issue was incomplete and it was determined that re-scanning would be a better solution than attempting to re-assemble the files. The 1952 issue was poorly aligned in the .pdf so a new digital issue was created from the master .tiff files. In one case, master files could not be located for an issue. Unfortunately, this issue could not be re-imaged because there was only one copy in the archive. This issue exists in .pdf format only. Attempts are being made to find a copy that can be re-imaged so the preservation files for the collection will be complete.

Metadata

The legacy metadata from CONTENTdm was incomplete and inconsistent. It was quickly determined that generating new metadata for the *Reveille* 3.0 would be less time consuming than cleaning up the old metadata and transferring it. Because of Digital Commons' support for in-text searching, there was no need for a complicated metadata schema. Metadata creation and entry took only a few days.

Embedding a book reader

Digital Commons has the ability to embed a book reader within the individual works in the book gallery, but it is up to the library to determine which book reader is appropriate. Fazzino's "Choosing a Book Reader for Your Repository" (2016) was used as a framework for the decision making process. Because the library valued a non-commercial venture, and owing to

the library's existing relationship with the Internet Archive through the use of its Archive-It software, the Internet Archive's book reader application was chosen. Individual issues of the *Reveille* were uploaded to the Internet Archive along with their accompanying metadata. The book reader URL was then transferred to the individual records within Digital Commons. The book reader itself works as desired though there are some issues with the way users access additional accessibility options like the read aloud function. Text-searching within the reader changes the view from a page flip style to a vertical scroll. Navigation within the book reader can be clumsy and the display can be too small for some users. Even so, it is a great improvement over earlier versions of the *Reveille*.

Taking down the collection in CONTENTdm

After the collection went live in the Scholars Repository, a re-direct was placed from the landing page of the collection in CONTENTdm to the new collection in the Scholars Repository. The final legacy metadata was exported from CONTENTdm and preserved along with all available usage data. Preservation files and access files were maintained as part of the new collection. The collection was permanently deleted from the CONTENTdm servers in September 2017.

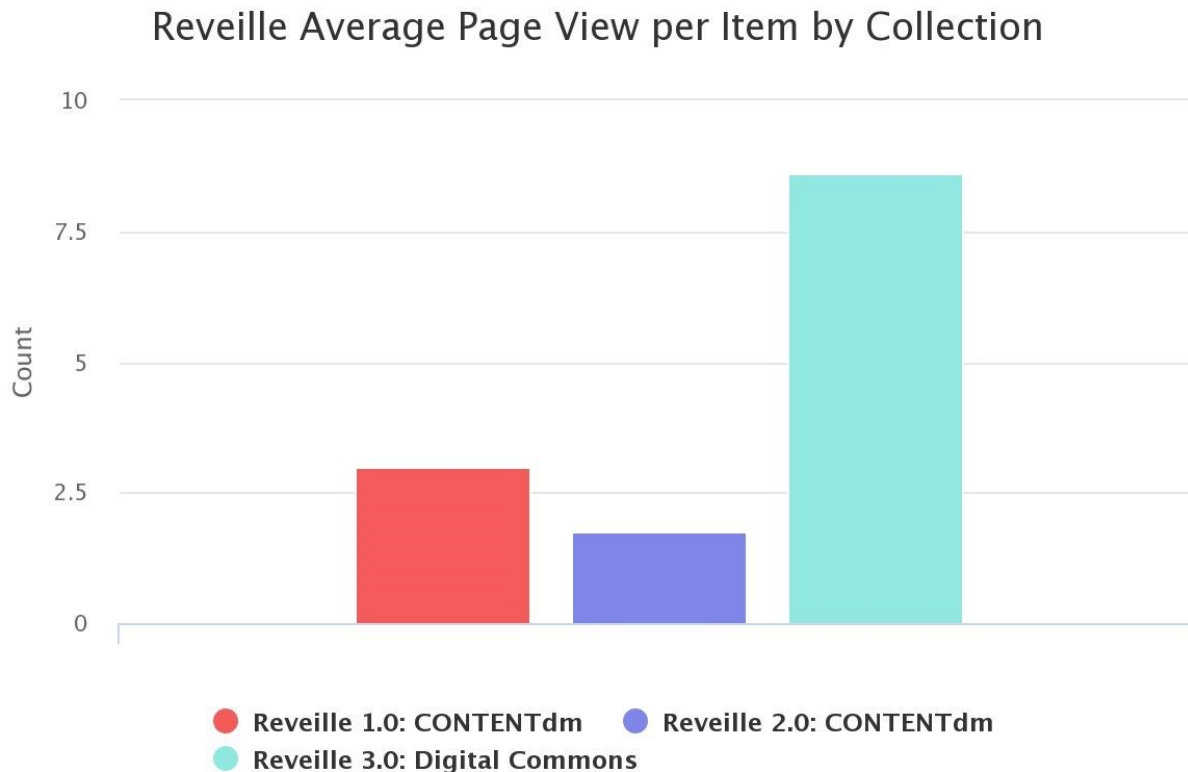
Major Differences Between *Reveille 2.0* and *Reveille 3.0*

The *Reveille 3.0* debuted in the Scholars Repository on July 6, 2017. By far the largest difference between the two versions is the ability to search text within individual issues from the platform itself. This has greatly increased discoverability within the collection. Digital Commons has better search engine indexing capabilities for its collections so there is a greater chance users will find the collection through a web search. Because Digital Commons is built for large .pdfs, load times have been significantly reduced. The book reader is visually appealing and allows users to flip through the yearbook in a way that mimics the experience of flipping through a physical book. The one drawback has been that collections in CONTENTdm are searchable through the library's ILS while items in the Scholars Repository are not. The solution has been to update the *Reveille* record in the library catalog and add a redirect for the digital access. There have been a few instances of lingering broken links to individual issues, but save for a few exceptions, searches for the *Reveille* in the library catalog are directing users to the proper place.

***Reveille 3.0* Usage**

Digital Commons collects item usage data differently from CONTENTdm so comparing statistics from both platforms can be difficult. Another layer of complexity is added for collections utilizing an embedded book reader. Digital Commons uses "downloads" as its main usage metric. The assumption is that when a book reader is present, users will view the item in the book reader, and not download the item. After consulting with Bepress, it was determined that "metadata page hits" would be the most comparable metric with the page view data from CONTENTdm. In July 2017, the *Reveille 3.0* received 120 metadata page hits in Digital Commons. That increased to 1,403 metadata page hits in August 2017. That makes for an average of 8.6 metadata page hits per item. This far outpaces the numbers for the *Reveille 1.0* and *Reveille 2.0*. See *Appendix C* for full *Reveille 3.0* metadata page hit data.

Chart 4: Reveille Average Page Views/Hits per Item by Collection



Discussion

Moving the collection from CONTENTdm to Digital Commons was a relatively painless process. Major concerns about the move centered on questions about how to redirect traffic from one platform to another. It seems that the increased usage of *Reveille 3.0* has eased these concerns. It is likely that usage of the collection will fall in coming months. The library worked with the FHSU University Relations Department to publicize the new collection through news stories and social media. This generated buzz, which resulted in the increased August usage numbers. Early numbers show that usage is down for the collection in September 2017, but that it is still above the usage of either the *Reveille 1.0* or *Reveille 2.0*. Publicity campaigns for the collection are planned for the 2017 FHSU Homecoming, and for the 2018 FHSU Commencement. Determining the best way to present the collection to satisfy stakeholder desires and user needs proved to be the most difficult part of the planning process. A number of institutions are presenting their yearbooks as part of their institutional repositories. As of yet there is no consensus on best practices for these collections. Finding good information on book reader technology that was pertinent to library use represented another area of difficulty. Many book reader platforms are commercial ventures and do not speak to concerns libraries have regarding access and copyright. Since the *Reveille* was moved to Digital Commons, a second collection of athletics programs has been moved using the model developed here. Both collections seem to be doing well in their new home.

Conclusion

In an academic library with mature digital collections, it is necessary to assess whether or not the platforms used to present collections are the best platforms for those specific collections. Decisions made nearly a decade ago may no longer be the best decision given the current state of technology. For Forsyth Library, access and discoverability were the greatest drivers in deciding that the *Reveille* should be moved from CONTENTdm to Digital Commons. Conscious effort was put into designing a digital collection that was discoverable, easy to use, and that provided a pleasant user experience. A detailed analysis of past efforts at improving the *Reveille* digital collection showed that efforts did not result in an improvement in collection usage. Average page view per item fell from *Reveille 1.0* to *Reveille 2.0*. This demonstrates the importance of making decisions based on data before expending resources altering an existing collection. In order to make well-informed decisions, it is necessary to preserve historical data where possible. A lack of scholarship on this topic can leave librarians in charge of digital collections without guidance when planning for collection changes. In this case, determining what problems were actually present (long load times, lack of in-text searching) and then looking for ways to address those problems represented the most challenging areas of this project. This case study has informed future collection assessment activities at Forsyth Library. The work-flows developed here will continue to be fine-tuned as more collections are assessed and possibly moved.

**You can see the Reveille Yearbooks at the FHSU Scholars Repository:
<http://scholars.fhsu.edu/yearbooks/>*

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CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Appendix A

Reveille 1.0 Page View Data

Issue Title	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Total
Reveille 1914	3	1	91	2	7	2	10	6	14	136
Reveille 1915	3	5	89	0	4	4	3	5	17	130
Reveille 1916	5	4	90	10	7	3	5	4	41	169
Reveille 1917	1	3	96	6	7	3	3	4	24	147
Reveille 1918-1919	2	3	90	7	4	3	14	2	22	147
Reveille 1920	0	4	97	4	3	1	9	6	18	142
Reveille 1921	2	1	86	2	1	3	2	3	20	120
Reveille 1922	2	1	84	0	1	1	7	8	19	123
Reveille 1923	3	1	79	2	4	4	9	8	30	140
Reveille 1924	0	2	72	2	1	0	7	5	26	115
Reveille 1925	1	2	82	6	1	6	5	5	23	131
Reveille 1926	1	7	83	1	4	2	3	1	21	123
Reveille 1927	2	1	80	5	3	0	1	3	16	111
Reveille 1928	3	4	82	2	4	0	5	7	18	125
Reveille 1929	4	3	84	4	2	0	3	2	25	127
Reveille 1930	2	2	91	1	5	4	3	7	26	141
Reveille 1931	1	1	87	3	2	0	6	4	18	122
Reveille 1932	2	7	84	4	3	2	4	9	17	132
Reveille 1933	1	7	85	3	3	1	5	8	14	127
Reveille 1934	1	2	69	1	3	0	0	1	13	90
Reveille 1935	1	2	32	0	1	0	4	2	18	60
Reveille 1936	1	4	2	0	1	1	1	3	0	13
Reveille 1937	0	0	50	0	0	1	3	1	12	67
Reveille 1938	0	0	31	1	2	6	11	4	13	68

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Reveille 1939	1	0	38	0	1	3	3	4	11	61
Reveille 1940	1	0	27	1	1	1	3	4	4	42
Reveille 1941	0	2	30	0	0	0	1	1	5	39
Reveille 1942	2	2	56	2	1	0	4	2	13	82
Reveille 1943	1	2	53	3	1	1	4	3	15	83
Reveille 1944	0	0	2	0	0	0	2	2	5	11
Reveille 1945	1	2	44	0	3	1	0	2	9	62
Reveille 1946	1	0	65	3	0	1	4	2	14	90
Reveille 1947	0	0	72	4	5	1	1	4	18	105
Reveille 1948	1	1	56	2	4	5	3	6	10	88
Reveille 1949	3	1	69	4	5	1	5	4	20	112
Reveille 1950	3	5	60	1	2	0	3	1	16	91
Reveille 1951	1	2	69	4	6	9	7	6	19	123
Reveille 1952	7	2	77	2	4	3	8	5	30	138
Reveille 1953	1	0	67	2	6	2	7	9	22	116
Reveille 1954	0	3	66	4	1	2	1	3	22	102
Reveille 1955	0	1	53	4	2	0	5	5	25	95
Reveille 1956	1	3	63	2	2	0	6	10	17	104
Reveille 1957	1	3	76	3	4	0	7	9	19	122
Reveille 1958	0	2	86	9	5	5	11	8	15	141
Reveille 1959	0	1	54	4	2	2	6	5	18	92
Reveille 1960	0	0	57	7	4	4	5	6	16	99
Reveille 1961	2	3	72	4	2	0	8	13	24	128
Reveille 1962	3	1	59	10	3	1	8	11	25	121
Reveille 1963	0	0	0	0	0	0	0	0	0	0
Reveille 1964	0	0	0	0	0	0	0	0	0	0
Reveille 1965	0	0	0	0	0	0	0	0	0	0
Reveille 1966	0	0	0	0	0	0	0	0	0	0
Reveille 1967	0	0	0	0	0	0	0	0	0	0
Reveille 1968	0	0	0	0	0	0	0	0	0	0

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Reveille 1969	3	9	83	8	8	6	7	12	24	160
Reveille 1970	0	0	0	0	0	0	0	0	0	0
Reveille 1971	0	0	0	0	0	0	0	0	0	0
Reveille 1972	0	0	0	0	0	0	0	0	0	0
Reveille 1973	0	0	0	0	0	0	0	0	0	0
Reveille 1974	0	0	0	0	0	0	0	0	0	0
Reveille 1975	0	0	0	0	0	0	0	0	0	0
Reveille 1976	0	0	0	0	0	0	0	0	0	0
Reveille 1977	0	0	0	0	0	0	0	0	0	0
Reveille 1978	0	0	0	0	0	0	0	0	0	0
Reveille 1979	0	0	0	0	0	0	0	0	0	0
Reveille 1980	0	0	0	0	0	0	0	0	0	0
Reveille 1981	0	0	0	0	0	0	0	0	0	0
Reveille 1982	0	0	0	0	0	0	0	0	0	0
Reveille 1983	0	0	0	0	0	0	0	0	0	0
Reveille 1984	0	0	0	0	0	0	0	0	0	0
Reveille 1985	0	0	0	0	0	0	0	0	0	0
Reveille 1986	0	0	0	0	0	0	0	0	0	0
Reveille 1987	0	0	0	0	0	0	0	0	0	0
Reveille 1988	0	0	0	0	0	0	0	0	0	0
Reveille 1989	0	0	0	0	0	0	0	0	0	0
Reveille 1990	0	0	0	0	0	0	0	0	0	0
Reveille 1991	0	0	0	0	0	0	0	0	0	0
Reveille 1992	0	0	0	0	0	0	0	0	0	0
Reveille 1993	0	0	0	0	0	0	0	0	0	0
Reveille 1994	0	0	0	0	0	0	0	0	0	0
Reveille 1995	0	0	0	0	0	0	0	0	0	0
Reveille 1996	0	0	0	0	0	0	0	0	0	0
Reveille 1997	0	0	0	0	0	0	0	0	0	0
Reveille 1998	0	0	0	0	0	0	0	0	0	0

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Reveille 1999	0	0	0	0	0	0	0	0	0	0
Reveille 2000	0	0	0	0	0	0	0	0	0	0
Reveille 2001	0	0	0	0	0	0	0	0	0	0
Reveille 2002	0	0	0	0	0	0	0	0	0	0
Reveille 2003	0	3	82	5	10	6	8	6	23	143

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Appendix B

Reveille 2.0 Page View Data

2014

Issue Title	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Total
Reveille 1914	3	3	3	3	1	2	3	7	8	0	33
Reveille 1915	0	2	0	0	0	1	0	4	2	0	9
Reveille 1916	1	0	0	0	0	0	0	1	2	1	5
Reveille 1917	3	1	0	0	0	0	0	1	0	0	5
Reveille 1918-1919	2	2	0	0	0	0	0	25	10	2	41
Reveille 1920	1	8	0	0	0	1	3	2	0	0	15
Reveille 1921	2	0	0	0	0	0	1	0	0	0	3
Reveille 1922	1	0	0	0	0	0	0	1	0	0	2
Reveille 1923	2	0	0	0	0	2	1	3	0	0	8
Reveille 1924	4	0	0	0	0	0	0	2	0	0	6
Reveille 1925	1	0	0	0	0	0	0	1	0	0	2
Reveille 1926	1	2	0	0	0	1	3	1	0	2	10
Reveille 1927	1	2	0	0	0	0	1	1	0	0	5
Reveille 1928	0	3	0	0	1	6	0	2	0	0	12
Reveille 1929	1	1	0	0	0	2	0	2	0	0	6
Reveille 1930	1	1	0	0	0	0	0	4	1	2	9
Reveille 1931	2	1	0	0	0	0	1	2	0	0	6
Reveille 1932	5	1	0	0	0	1	3	0	0	0	10
Reveille 1933	0	2	1	1	0	2	4	0	0	0	10
Reveille 1934	1	1	0	0	0	0	0	1	5	0	8
Reveille 1935	1	1	0	0	1	6	2	8	7	0	26
Reveille 1936	0	2	0	0	1	0	1	0	0	0	4

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Reveille 1937	0	1	0	0	1	0	1	0	0	0	3
Reveille 1938	1	3	0	0	1	0	2	1	3	0	11
Reveille 1939	0	0	0	0	1	1	1	0	1	0	4
Reveille 1940	1	1	0	0	0	2	2	0	0	0	6
Reveille 1941	1	0	0	0	0	4	0	1	1	0	7
Reveille 1942	1	0	0	0	0	2	0	0	0	0	3
Reveille 1943	1	0	0	0	0	1	2	0	1	0	5
Reveille 1944	0	0	0	0	0	1	1	1	1	1	5
Reveille 1945	0	0	0	0	0	3	0	0	0	2	5
Reveille 1946	2	0	0	0	0	1	0	0	0	0	3
Reveille 1947	0	0	0	0	0	1	0	0	1	0	2
Reveille 1948	0	0	0	0	0	0	0	0	0	5	5
Reveille 1949	4	1	0	0	1	0	1	0	0	6	13
Reveille 1950	3	1	0	0	0	0	1	0	0	3	8
Reveille 1951	5	2	0	0	0	0	2	0	0	0	9
Reveille 1952	5	2	0	0	0	0	1	2	0	0	10
Reveille 1953	2	3	1	1	1	0	3	1	0	0	12
Reveille 1954	1	2	2	2	0	0	0	1	0	0	8
Reveille 1955	0	1	0	0	0	1	0	0	2	0	4
Reveille 1956	2	2	1	1	0	0	1	0	2	0	9
Reveille 1957	6	2	0	0	0	0	1	0	2	0	11
Reveille 1958	3	1	0	0	0	3	1	1	0	0	9
Reveille 1959	4	2	0	0	1	0	1	1	4	0	13
Reveille 1960	5	1	0	0	1	1	1	3	0	1	13
Reveille 1961	2	1	3	3	0	0	1	0	0	0	10
Reveille 1962	6	1	4	4	0	2	5	32	4	2	60
Reveille 1963	0	0	1	1	7	3	7	3	0	2	24
Reveille 1964	0	1	1	1	2	5	1	31	6	8	56
Reveille 1965	0	0	1	1	0	3	2	12	7	6	32
Reveille 1966	0	0	1	1	0	3	3	13	6	7	34

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Reveille 1967	0	0	0	0	0	7	4	3	3	2	19
Reveille 1968	0	0	0	0	0	6	5	5	1	1	18
Reveille 1969	4	1	3	3	0	6	1	1	0	2	21
Reveille 1970	0	0	0	0	0	0	0	9	7	8	24
Reveille 1971	0	0	1	1	0	2	6	24	4	5	43
Reveille 1972	0	0	0	0	0	0	0	5	11	4	20
Reveille 1973	0	0	3	3	8	2	3	12	14	4	49
Reveille 1974	1	0	0	0	13	2	1	9	0	0	26
Reveille 1975	0	2	0	0	8	0	0	20	4	1	35
Reveille 1976	0	0	0	0	0	0	0	2	1	5	8
Reveille 1977	2	2	1	1	0	0	2	0	0	3	11
Reveille 1978	8	5	2	2	1	6	1	6	1	1	33
Reveille 1979	4	1	2	2	2	2	3	7	3	1	27
Reveille 1980	2	1	2	2	2	3	6	8	2	1	29
Reveille 1981	5	1	2	2	4	4	5	6	1	3	33
Reveille 1982	0	0	0	0	0	0	0	3	4	2	9
Reveille 1983	0	0	0	0	0	0	0	1	4	0	5
Reveille 1984	0	0	0	0	0	0	0	1	1	0	2
Reveille 1985	0	0	0	0	0	0	0	0	1	0	1
Reveille 1986	0	0	0	0	0	0	0	0	5	2	7
Reveille 1987	0	0	0	0	0	0	0	0	14	4	18
Reveille 1988	0	0	0	0	0	0	0	0	5	1	6
Reveille 1989	0	0	0	0	0	0	0	0	0	0	0
Reveille 1990	0	0	0	0	0	0	0	0	0	0	0
Reveille 1991	0	0	0	0	0	0	0	0	0	0	0
Reveille 1992	0	0	0	0	0	0	0	0	0	0	0
Reveille 1993	0	0	0	0	0	0	0	0	0	0	0
Reveille 1994	0	0	0	0	0	0	0	0	0	0	0
Reveille 1995	0	0	0	0	0	0	0	0	0	0	0
Reveille 1996	0	0	0	0	0	0	0	0	0	0	0

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Reveille 1997	0	0	0	0	0	0	0	0	0	0	0
Reveille 1998	0	0	0	0	0	0	0	0	0	0	0
Reveille 1999	0	0	0	0	0	0	0	0	0	0	0
Reveille 2000	0	0	0	0	0	0	0	0	0	0	0
Reveille 2001	0	0	0	0	0	0	0	0	0	0	0
Reveille 2002	0	0	4	4	2	9	3	4	0	0	26
Reveille 2003	3	2	4	4	1	3	2	2	0	0	21

2015

Issue Title	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Total
Reveille 1914	2	1	5	0	3	4	1	7	3	0	2	2	30
Reveille 1915	0	6	1	2	0	1	2	2	0	0	0	1	15
Reveille 1916	0	2	7	4	0	1	1	3	0	0	3	2	23
Reveille 1917	0	0	1	3	1	1	2	3	0	1	0	1	13
Reveille 1918-1919	0	0	3	0	1	1	1	2	0	0	0	0	8
Reveille 1920	0	1	5	1	1	0	8	7	1	0	0	2	26
Reveille 1921	1	0	8	1	1	2	1	3	0	0	0	0	17
Reveille 1922	0	1	1	1	0	1	1	0	0	0	0	0	5
Reveille 1923	0	1	1	4	1	3	1	5	0	0	0	0	16
Reveille 1924	0	0	2	1	0	2	1	2	0	0	0	0	8
Reveille 1925	1	2	5	0	2	4	0	2	4	0	0	1	21
Reveille 1926	2	3	2	0	0	2	1	2	1	0	0	0	13
Reveille 1927	3	0	1	2	0	1	2	0	1	0	0	0	10
Reveille 1928	1	0	2	1	3	0	0	1	0	0	0	0	8
Reveille 1929	0	2	3	1	1	2	9	0	0	0	0	3	21
Reveille 1930	0	0	6	0	1	0	2	3	0	0	0	0	12
Reveille 1931	0	2	5	2	0	0	1	0	1	3	2	0	16

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Reveille 1932	0	0	2	1	0	0	0	1	0	0	0	0	4
Reveille 1933	0	0	2	2	1	0	0	0	0	1	0	1	7
Reveille 1934	0	0	1	1	0	0	1	2	0	1	0	0	6
Reveille 1935	0	0	1	0	0	1	2	2	0	0	0	0	6
Reveille 1936	0	1	1	2	1	1	0	9	0	0	0	0	15
Reveille 1937	1	1	0	3	0	0	1	1	0	1	0	0	8
Reveille 1938	1	0	1	1	0	2	1	1	0	1	0	0	8
Reveille 1939	0	1	1	1	0	1	0	0	0	1	0	0	5
Reveille 1940	0	0	1	3	0	2	0	6	0	0	3	0	15
Reveille 1941	0	0	3	2	0	0	0	3	0	0	0	0	8
Reveille 1942	0	2	1	4	0	2	2	4	0	0	2	0	17
Reveille 1943	2	0	2	1	2	1	4	1	0	0	3	0	16
Reveille 1944	0	0	1	0	0	1	0	1	0	0	0	0	3
Reveille 1945	0	2	1	2	1	4	1	9	1	0	0	0	21
Reveille 1946	1	0	0	2	1	2	0	2	0	0	0	0	8
Reveille 1947	0	0	1	1	3	1	0	1	0	0	0	0	7
Reveille 1948	1	0	0	0	2	0	0	0	0	0	0	0	3
Reveille 1949	3	0	1	1	2	2	3	1	0	0	0	0	13
Reveille 1950	3	1	1	0	3	1	2	2	0	1	0	0	14
Reveille 1951	0	2	1	1	2	1	1	3	0	1	0	0	12
Reveille 1952	0	2	1	0	2	1	1	12	0	0	0	0	19
Reveille 1953	0	0	5	0	4	2	1	3	2	0	1	0	18
Reveille 1954	0	0	1	0	1	0	0	4	8	0	2	0	16
Reveille 1955	0	3	0	1	0	1	1	1	1	3	2	0	13
Reveille 1956	0	1	0	0	2	2	1	1	0	0	0	0	7
Reveille 1957	0	6	0	0	4	0	3	3	3	0	0	0	19
Reveille 1958	0	2	5	1	3	3	1	0	0	1	0	0	16
Reveille 1959	0	9	0	4	1	2	4	1	2	0	1	0	24
Reveille 1960	1	5	8	0	3	2	1	2	0	0	0	0	22
Reveille 1961	0	6	1	1	1	2	1	2	0	1	1	0	16

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Reveille 1962	0	1	0	0	3	2	1	2	0	2	2	1	14
Reveille 1963	4	0	3	1	3	0	1	4	0	0	0	0	16
Reveille 1964	10	1	1	0	6	0	1	4	6	0	3	0	32
Reveille 1965	10	4	15	4	5	2	4	14	5	1	2	4	70
Reveille 1966	1	0	6	0	0	0	0	11	1	0	1	0	20
Reveille 1967	0	1	6	1	1	0	9	6	0	6	6	0	36
Reveille 1968	2	7	5	3	5	12	1	7	0	4	4	3	53
Reveille 1969	1	1	1	1	0	4	1	15	5	2	4	0	35
Reveille 1970	2	6	13	13	2	12	7	14	0	0	2	3	74
Reveille 1971	6	1	2	6	6	4	3	10	0	0	2	1	41
Reveille 1972	4	13	6	8	4	10	51	11	3	0	15	1	126
Reveille 1973	1	5	3	4	1	1	10	26	1	3	5	2	62
Reveille 1974	0	4	2	1	0	4	3	2	0	1	7	0	24
Reveille 1975	0	1	5	2	7	2	4	5	5	0	11	1	43
Reveille 1976	2	2	5	7	3	4	7	6	0	1	11	0	48
Reveille 1977	3	1	9	1	0	3	2	3	5	4	29	0	60
Reveille 1978	7	1	4	1	0	1	0	4	3	8	15	3	47
Reveille 1979	6	1	3	4	4	1	0	5	0	5	10	4	43
Reveille 1980	1	0	5	2	0	4	0	2	11	7	9	4	45
Reveille 1981	1	2	4	2	18	2	1	3	2	4	20	0	59
Reveille 1982	2	3	5	14	3	9	8	7	3	2	3	2	61
Reveille 1983	2	0	0	1	1	4	3	5	0	7	1	5	29
Reveille 1984	6	0	5	2	3	1	1	4	1	5	0	0	28
Reveille 1985	0	0	4	0	0	1	2	11	0	17	4	0	39
Reveille 1986	4	3	5	5	10	5	7	5	2	0	10	0	56
Reveille 1987	4	5	16	4	6	9	19	6	2	1	2	2	76
Reveille 1988	6	13	18	1	12	2	1	3	3	2	2	1	64
Reveille 1989	0	0	0	0	0	0	0	1	3	3	2	3	12
Reveille 1990	0	0	0	0	0	0	0	0	3	1	0	1	5
Reveille 1991	0	0	0	0	0	0	0	0	1	4	0	2	7

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Reveille 1992	0	0	0	0	0	0	0	0	2	15	9	2	28
Reveille 1993	0	0	0	0	0	0	0	0	1	3	21	1	26
Reveille 1994	0	0	0	0	0	0	0	1	2	2	0	2	7
Reveille 1995	0	0	0	0	0	0	0	0	1	2	0	0	3
Reveille 1996	0	0	0	0	0	0	0	0	2	5	3	1	11
Reveille 1997	0	0	0	0	0	0	0	1	2	0	7	0	10
Reveille 1998	0	0	0	0	0	0	0	0	2	0	0	4	6
Reveille 1999	0	0	0	0	0	0	0	2	0	0	0	1	3
Reveille 2000	0	0	0	0	0	0	0	0	0	2	0	0	2
Reveille 2001	0	0	0	0	0	0	0	0	0	4	0	0	4
Reveille 2002	2	2	1	2	0	2	4	1	0	3	1	0	18
Reveille 2003	5	0	1	3	4	2	5	6	0	1	2	0	29

2016

Issue Title	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Total
Reveille 1914	0	1	0	6	2	1	1	0	0	0	2	0	13
Reveille 1915	0	1	0	0	0	0	0	0	0	0	2	0	3
Reveille 1916	0	1	0	2	1	3	3	4	0	2	2	0	18
Reveille 1917	0	1	0	3	0	0	0	2	0	0	2	0	8
Reveille 1918-1919	0	1	0	0	0	0	0	2	0	0	5	0	8
Reveille 1920	0	1	0	0	0	0	0	0	0	0	2	0	3
Reveille 1921	0	1	0	1	0	1	1	0	0	0	2	0	6
Reveille 1922	0	1	0	1	0	0	0	1	0	0	2	1	6
Reveille 1923	0	1	1	1	0	0	0	0	0	0	4	0	7
Reveille 1924	0	1	0	0	0	0	0	0	1	2	4	0	8
Reveille 1925	0	1	0	0	0	0	0	0	0	2	1	0	4
Reveille 1926	0	1	1	0	0	3	3	0	0	0	0	0	8

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Reveille 1927	0	2	1	0	2	0	0	0	1	0	0	0	6
Reveille 1928	0	1	0	0	0	0	0	0	0	0	0	1	2
Reveille 1929	1	1	0	0	0	0	0	0	0	0	3	0	5
Reveille 1930	0	1	0	0	4	1	1	0	0	0	2	3	12
Reveille 1931	0	1	1	0	1	0	0	0	0	0	2	1	6
Reveille 1932	0	1	2	0	1	0	0	0	0	0	1	1	6
Reveille 1933	0	1	1	0	0	0	0	0	0	2	3	2	9
Reveille 1934	0	1	1	0	0	0	0	0	0	0	2	0	4
Reveille 1935	2	1	5	0	0	1	1	0	0	0	1	2	13
Reveille 1936	0	1	4	0	0	0	0	1	0	0	2	2	10
Reveille 1937	0	1	2	0	0	2	2	0	0	0	3	2	12
Reveille 1938	0	1	1	0	0	0	0	0	0	0	2	0	4
Reveille 1939	0	1	1	0	0	1	1	0	0	0	3	0	7
Reveille 1940	0	1	1	0	0	0	0	0	0	0	2	0	4
Reveille 1941	1	1	1	0	0	0	0	0	0	0	3	0	6
Reveille 1942	1	1	1	0	0	0	0	0	0	0	2	2	7
Reveille 1943	0	1	4	0	0	1	1	0	0	1	5	0	13
Reveille 1944	0	1	6	0	1	2	2	0	0	0	3	0	15
Reveille 1945	0	1	2	0	0	0	0	0	0	0	2	0	5
Reveille 1946	2	1	2	0	1	0	0	0	0	0	2	0	8
Reveille 1947	3	1	0	0	0	2	2	0	0	0	2	0	10
Reveille 1948	0	1	0	0	0	0	0	0	0	0	1	0	2
Reveille 1949	0	1	1	1	0	0	0	0	0	0	5	0	8
Reveille 1950	0	1	0	0	0	0	0	0	0	0	2	0	3
Reveille 1951	5	1	0	0	0	0	0	0	0	0	0	1	7
Reveille 1952	0	5	0	0	0	0	0	1	0	1	7	0	14
Reveille 1953	0	1	2	0	0	0	0	0	0	1	3	0	7
Reveille 1954	0	1	0	0	0	0	0	0	0	0	5	0	6
Reveille 1955	2	3	0	0	0	1	1	0	0	2	2	0	11
Reveille 1956	1	1	0	3	0	0	0	0	0	0	3	0	8

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Reveille 1957	27	1	1	3	0	1	1	1	1	0	1	0	37
Reveille 1958	0	1	0	1	0	1	1	2	0	0	2	3	11
Reveille 1959	9	1	5	1	0	2	2	0	0	0	2	0	22
Reveille 1960	0	1	1	0	0	0	0	1	0	2	3	0	8
Reveille 1961	1	1	0	0	0	1	1	0	0	0	0	0	4
Reveille 1962	0	4	1	0	3	0	0	0	0	2	1	0	11
Reveille 1963	0	1	0	0	0	0	0	0	0	0	0	1	2
Reveille 1964	5	3	1	0	1	0	0	1	0	0	3	0	14
Reveille 1965	10	2	8	2	2	2	2	6	0	0	3	0	37
Reveille 1966	7	4	1	2	1	1	1	0	0	0	5	0	22
Reveille 1967	2	2	3	11	4	1	1		0	1	3	2	30
Reveille 1968	0	2	0	0	5	0	0	0	0	0	2	5	14
Reveille 1969	0	3	0	1	3	2	2	0	0	1	2	3	17
Reveille 1970	2	1	0	2	4	2	2	1	0	0	5	2	21
Reveille 1971	13	3	4	0	3	2	2	1	0	1	7	2	38
Reveille 1972	2	23	6	7	5	10	10	0	0	0	4	1	68
Reveille 1973	9	6	1	4	3	1	1	1	1	1	3	3	34
Reveille 1974	0	3	0	1	0	1	1	2	0	1	4	1	14
Reveille 1975	0	2	0	2	0	0	0	4	0	2	1	3	14
Reveille 1976	0	3	3	0	2	4	4	1	3	1	1	1	23
Reveille 1977	2	6	1	1	0	2	2	0	3	2	2	1	22
Reveille 1978	18	6	3	2	0	7	7	0	0	0	3	1	47
Reveille 1979	2	6	4	0	2	8	8	1	0	1	1	6	39
Reveille 1980	2	2	1	1	2	9	9	2	3	2	3	0	36
Reveille 1981	2	2	0	0	2	1	1	0	5	6	2	2	23
Reveille 1982	3	6	0	2	7	1	1	0	0	2	8	3	33
Reveille 1983	3	1	0	3	3	0	0	0	0	0	2	0	12
Reveille 1984	0	1	3	0	0	0	0	0	0	1	1	2	8
Reveille 1985	10	1	3	2	0	0	0	0	0	1	0	7	24
Reveille 1986	3	2	0	1	3	2	2	3	0	0	1	0	17

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Reveille 1987	0	1	2	2	1	1	1	0	0	0	0	0	8
Reveille 1988	0	1	0	1	1	0	0	0	0	0	0	0	3
Reveille 1989	1	2	6	0	5	2	2	0	0	0	4	2	24
Reveille 1990	2	8	3	4	5	3	3	1	0	0	4	1	34
Reveille 1991	2	4	3	0	1	0	0	0	0	0	1	0	11
Reveille 1992	3	7	15	3	2	3	3	1	0	1	4	1	43
Reveille 1993	4	7	3	2	0	2	2	1	0	0	3	1	25
Reveille 1994	2	13	7	7	0	7	7	0	0	0	7	5	55
Reveille 1995	1	6	1	3	1	1	1	1	0	0	5	2	22
Reveille 1996	0	3	3	6	4	1	1	0	0	1	6	1	26
Reveille 1997	0	3	3	0	0	2	2	0	0	0	1	0	11
Reveille 1998	0	2	9	0	0	0	0	0	1	0	2	1	15
Reveille 1999	0	1	3	0	0	0	0	0	0	0	1	0	5
Reveille 2000	0	1	3	0	0	0	0	0	0	0	2	1	7
Reveille 2001	0	1	2	0	0	0	0	0	0	0	3	1	7
Reveille 2002	0	2	0	0	0	0	0	0	0	0	4	0	6
Reveille 2003	0	3	8	0	0	6	6	0	0	0	1	0	24

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

2017

Issue Title	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Total
Reveille 1914	0	0	1	1	3	0	5
Reveille 1915	2	2	2	2	2	0	10
Reveille 1916	3	3	1	2	3	10	22
Reveille 1917	3	4	2	1	3	8	21
Reveille 1918-1919	2	4	1	6	6	4	23
Reveille 1920	0	2	0	0	2	2	6
Reveille 1921	1	0	0	2	2	4	9
Reveille 1922	0	0	0	0	2	2	4
Reveille 1923	0	0	0	1	2	4	7
Reveille 1924	0	1	0	1	2	7	11
Reveille 1925	1	0	0	1	3	2	7
Reveille 1926	3	0	0	1	4	1	9
Reveille 1927	0	0	0	1	2	0	3
Reveille 1928	0	0	0	0	2	1	3
Reveille 1929	0	0	0	1	2	4	7
Reveille 1930	2	2	0	2	4	2	12
Reveille 1931	0	0	0	0	3	5	8
Reveille 1932	0	0	0	1	5	7	13
Reveille 1933	1	1	0	2	3	4	11
Reveille 1934	2	1	1	0	2	2	8
Reveille 1935	0	1	1	0	3	2	7
Reveille 1936	1	1	0	2	3	5	12
Reveille 1937	6	0	0	2	4	2	14
Reveille 1938	2	1	1	0	2	4	10
Reveille 1939	2	1	0	0	3	6	12

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Reveille 1940	1	1	0	1	3	6	12
Reveille 1941	0	0	0	1	2	5	8
Reveille 1942	1	1	0	3	3	2	10
Reveille 1943	1	0	0	1	3	5	10
Reveille 1944	0	0	1	1	3	3	8
Reveille 1945	0	1	0	1	3	4	9
Reveille 1946	0	1	3	0	2	3	9
Reveille 1947	2	0	0	2	3	3	10
Reveille 1948	1	0	1	3	6	3	14
Reveille 1949	0	0	0	1	4	3	8
Reveille 1950	0	0	0	1	6	3	10
Reveille 1951	0	0	3	0	1	2	6
Reveille 1952	1	0	0	5	4	7	17
Reveille 1953	0	0	0	2	3	2	7
Reveille 1954	1	1	0	3	14	4	23
Reveille 1955	0	3	0	0	2	2	7
Reveille 1956	2	0	0	4	8	4	18
Reveille 1957	0	0	0	7	2	3	12
Reveille 1958	4	0	0	1	2	5	12
Reveille 1959	3	1	0	3	3	4	14
Reveille 1960	1	0	0	4	7	3	15
Reveille 1961	0	0	0	1	2	0	3
Reveille 1962	1	0	0	2	2	3	8
Reveille 1963	0	0	1	0	2	0	3
Reveille 1964	1	5	5	1	6	7	25
Reveille 1965	3	3	1	3	2	7	19
Reveille 1966	1	4	1	1	3	6	16
Reveille 1967	2	3	1	4	7	4	21
Reveille 1968	1	2	1	1	3	6	14
Reveille 1969	1	0	4	1	11	6	23

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Reveille 1970	0	0	2	3	5	2	12
Reveille 1971	1	2	5	1	5	4	18
Reveille 1972	2	0	0	4	7	5	18
Reveille 1973	3	3	1	35	3	4	49
Reveille 1974	1	2	1	0	5	5	14
Reveille 1975	0	3	1	2	2	6	14
Reveille 1976	3	3	1	4	4	6	21
Reveille 1977	8	1	0	3	5	17	34
Reveille 1978	2	12	4	1	2	12	33
Reveille 1979	2	1	3	5	4	10	25
Reveille 1980	2	1	3	2	6	7	21
Reveille 1981	1	2	1	6	4	7	21
Reveille 1982	1	0	2	7	8	5	23
Reveille 1983	1	0	6	5	5	8	25
Reveille 1984	0	0	1	2	4	0	7
Reveille 1985	0	10	0	6	14	3	33
Reveille 1986	1	1	6	4	7	25	44
Reveille 1987	0	2	4	1	6	17	30
Reveille 1988	0	3	10	2	5	7	27
Reveille 1989	1	1	8	5	18	9	42
Reveille 1990	1	3	4	9	25	10	52
Reveille 1991	0	2	1	1	4	9	17
Reveille 1992	1	1	2	8	18	10	40
Reveille 1993	2	1	3	5	16	10	37
Reveille 1994	3	1	6	8	14	10	42
Reveille 1995	1	0	2	2	8	7	20
Reveille 1996	1	1	6	8	11	8	35
Reveille 1997	1	0	1	0	5	2	9
Reveille 1998	0	0	1	2	3	7	13
Reveille 1999	0	0	0	0	4	9	13

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Reveille 2000	1	0	0	3	5	7	16
Reveille 2001	0	3	0	0	4	9	16
Reveille 2002	1	1	1	1	2	11	17
Reveille 2003	0	0	1	0	4	17	22

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Appendix C

Reveille 3.0 Metadata Page Hit Data

Title	Jul-17	Aug-17	Total
Fort Hays State University 1914 Reveille	13	19	32
Fort Hays State University 1915 Reveille	1	7	8
Fort Hays State University 1916 Reveille	1	4	5
Fort Hays State University 1917 Reveille	1	5	6
Fort Hays State University 1918-1919 Reveille	2	11	13
Fort Hays State University 1920 Reveille	1	4	5
Fort Hays State University 1921 Reveille	1	3	4
Fort Hays State University 1922 Reveille	1	3	4
Fort Hays State University 1923 Reveille	3	2	5
Fort Hays State University 1924 Reveille	1	3	4
Fort Hays State University 1925 Reveille	1	4	5
Fort Hays State University 1926 Reveille	2	1	3
Fort Hays State University 1927 Reveille	3	4	7
Fort Hays State University 1928 Reveille	1	2	3
Fort Hays State University 1929 Reveille	1	5	6
Fort Hays State University 1930 Reveille	0	1	1
Fort Hays State University 1931 Reveille	0	2	2
Fort Hays State University 1932 Reveille	0	3	3
Fort Hays State University 1933 Reveille	1	0	1
Fort Hays State University 1934 Reveille	0	2	2
Fort Hays State University 1935 Reveille	0	4	4
Fort Hays State University 1936 Reveille	1	5	6
Fort Hays State University 1937 Reveille	0	2	2
Fort Hays State University 1938 Reveille	0	4	4
Fort Hays State University 1939 Reveille	0	10	10
Fort Hays State University 1940 Reveille	0	5	5

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Fort Hays State University 1941 Reveille	1	9	10
Fort Hays State University 1942 Reveille	1	6	7
Fort Hays State University 1943 Reveille	1	4	5
Fort Hays State University 1944 Reveille	0	9	9
Fort Hays State University 1945 Reveille	0	20	20
Fort Hays State University 1946 Reveille	0	5	5
Fort Hays State University 1947 Reveille	0	7	7
Fort Hays State University 1948 Reveille	0	4	4
Fort Hays State University 1949 Reveille	2	5	7
Fort Hays State University 1950 Reveille	1	5	6
Fort Hays State University 1951 Reveille	2	5	7
Fort Hays State University 1952 Reveille	1	8	9
Fort Hays State University 1953 Reveille	2	10	12
Fort Hays State University 1954 Reveille	1	10	11
Fort Hays State University 1955 Reveille	1	4	5
Fort Hays State University 1956 Reveille	1	6	7
Fort Hays State University 1957 Reveille	1	4	5
Fort Hays State University 1958 Reveille	1	31	32
Fort Hays State University 1959 Reveille	2	9	11
Fort Hays State University 1960 Reveille	1	4	5
Fort Hays State University 1961 Reveille	1	4	5
Fort Hays State University 1962 Reveille	1	0	1
Fort Hays State University 1963 Reveille	1	11	12
Fort Hays State University 1964 Reveille	2	11	13
Fort Hays State University 1965 Reveille	1	11	12
Fort Hays State University 1966 Reveille	1	13	14
Fort Hays State University 1967 Reveille	2	14	16
Fort Hays State University 1968 Reveille	3	19	22
Fort Hays State University 1969 Reveille	1	27	28
Fort Hays State University 1970 Reveille	1	34	35

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Fort Hays State University 1971 Reveille	3	17	20
Fort Hays State University 1972 Reveille	1	21	22
Fort Hays State University 1973 Reveille	1	18	19
Fort Hays State University 1974 Reveille	1	23	24
Fort Hays State University 1975 Reveille	2	22	24
Fort Hays State University 1976 Reveille	3	21	24
Fort Hays State University 1977 Reveille	1	28	29
Fort Hays State University 1978 Reveille	1	26	27
Fort Hays State University 1979 Reveille	3	34	37
Fort Hays State University 1980 Reveille	2	30	32
Fort Hays State University 1981 Reveille	3	34	37
Fort Hays State University 1982 Reveille	1	43	44
Fort Hays State University 1983 Reveille	2	48	50
Fort Hays State University 1984 Reveille	3	39	42
Fort Hays State University 1985 Reveille	4	38	42
Fort Hays State University 1986 Reveille	4	25	29
Fort Hays State University 1987 Reveille	3	43	46
Fort Hays State University 1988 Reveille	3	49	52
Fort Hays State University 1989 Reveille	3	33	36
Fort Hays State University 1990 Reveille	1	30	31
Fort Hays State University 1991 Reveille	0	25	25
Fort Hays State University 1992 Reveille	0	46	46
Fort Hays State University 1993 Reveille	0	36	36
Fort Hays State University 1994 Reveille	0	30	30
Fort Hays State University 1995 Reveille	0	18	18
Fort Hays State University 1996 Reveille	0	29	29
Fort Hays State University 1997 Reveille	0	22	22
Fort Hays State University 1998 Reveille	0	22	22
Fort Hays State University 1999 Reveille	0	22	22
Fort Hays State University 2000 Reveille	1	26	27

CASE STUDY – A CALL TO ACTION: MIGRATING THE REVEILLE

Fort Hays State University 2001 Reveille	2	27	29
Fort Hays State University 2002 Reveille	2	23	25
Fort Hays State University 2003 Reveille	2	31	33